

U.S. DEPARTMENT OF ENERGY
Facilities Information Management System (FIMS)
REQUEST FOR CHANGE*
Chg. Req. # 07-07

REQUESTER NAME: GARY HORN

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AFFILIATION (CK ONE):

DOE

OTHER
FED

CONTRACTOR NAME:

PROPOSED CHANGE: ADD THE FOLLOWING THREE DATA ELEMENTS TO THE MAINTENANCE WINDOW IN FIMS. THESE FIELDS WILL BE REQUIRED FOR DOE OWNED BUILDINGS, OSF'S AND REAL PROPERTY TRAILERS WITH A HAZARD CODE OF 1-4 AND 6-9. THESE HAZARD CODES ARE DEFINED AS FOLLOWS:

- 1 - NUCLEAR FACILITY CATEGORY 1
- 2 - NUCLEAR FACILITY CATEGORY 2
- 3 - NUCLEAR FACILITY CATEGORY 3
- 4 - RADIOLOGICAL FACILITY
- 6 - NUCLEAR CATEGORY 1 AND CHEMICAL HAZARD FACILITY
- 7 - NUCLEAR CATEGORY 2 AND CHEMICAL HAZARD FACILITY
- 8 - NUCLEAR CATEGORY 3 AND CHEMICAL HAZARD FACILITY
- 9 - RADIOLOGICAL FACILITY AND CHEM HAZARD FACILITY

THE DEFINITIONS FOR THE THREE DATA ELEMENTS ARE LISTED BELOW.

AVAILABILITY - THE TIME CRITICAL STRUCTURE, SYSTEM, COMPONENT (SSC'S) ARE AVAILABLE FOR USE. THE ACTUAL RUN TIME OF MISSION CRITICAL SSC'S DIVIDED BY THE SCHEDULED RUN TIME. THIS IS EXPRESSED IN PERCENT PER YEAR AS AN INDICATION OF A NUCLEAR FACILITIES AVAILABILITY FOR USE DURING THAT PERIOD. (THE FRACTION OF TIME THAT A MISSION CRITICAL SSC IS CAPABLE OF PROVIDING SERVICE, WHETHER OR NOT IT IS ACTUALLY IN SERVICE. AVAILABILITY IS DETERMINED BY DIVIDING THE NUMBER OF HOURS IN A SPECIFIED TIME INTERVAL THAT THE SSC IS CAPABLE OF PROVIDING SERVICE BY THE TOTAL NUMBER OF HOURS IN THE TIME INTERVAL EXAMINED.)

FAILURE RATE NORMAL - THE NUMBER OF MISSION CRITICAL STRUCTURE, SYSTEM, COMPONENT (SSC'S) FAILURES DIVIDED BY AN INTERVAL SUCH AS TIME OR CYCLES. FOR MISSION CRITICAL SSC'S NORMALLY IN USE, THE FAILURE RATE IS EXPRESSED AS PROBABILITY PER HOUR/YEAR. (FAILURE RATES CAN BE DETERMINED IN A NUMBER OF DIFFERENT WAYS AND MAY DEPEND ON SSC-SPECIFIC FACTORS, SUCH AS WHETHER THE SSC IS CONTINUOUSLY OPERATING OR IS MOSTLY ON STANDBY. RECOGNIZED METHODS FOR ESTIMATING FAILURE RATES ARE GIVEN IN THE PRA PROCEDURES GUIDE, NUREG/CR-2300, JANUARY 1983).

FAILURE RATE STANDBY - THE NUMBER OF MISSION CRITICAL STRUCTURE, SYSTEM, COMPONENT

***USE THIS FORM TO REQUEST A CHANGE TO FIMS' DATA BASE PROGRAM, POLICY, PROCEDURE OR DOCUMENTATION.**

MAIL COMPLETED FORM TO: JOLIE MACIER
FERMI NATIONAL ACCELERATOR LABORATORY
KIRK ROAD AND PINE STREET
BATAVIA, IL 60510-0500
PHONE (630) 840-2353 FAX (630) 840-4980

OR DOWNLOAD FORM FROM: FIMS WEB PAGE: <http://fims.hr.doe.gov/downloads.htm>
COMPLETE FORM AND E-MAIL TO: jrmacier@fnal.gov

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(SSC's) FAILURES DIVIDED BY AN INTERVAL SUCH AS TIME OR CYCLES. FOR MISSION CRITICAL SSC'S ON STANDBY, THE FAILURE RATE IS EXPRESSED AS PROBABILITY PER HOUR/YEAR WHILE ON STANDBY. (FAILURE RATES CAN BE DETERMINED IN A NUMBER OF DIFFERENT WAYS AND MAY DEPEND ON SSC-SPECIFIC FACTORS, SUCH AS WHETHER THE SSC IS CONTINUOUSLY OPERATING OR IS MOSTLY ON STANDBY. RECOGNIZED METHODS FOR ESTIMATING FAILURE RATES ARE GIVEN IN THE PRA PROCEDURES GUIDE, NUREG/CR-2300, JANUARY 1983).

JUSTIFICATION: COLLECTION OF THIS DATA AND ENTRY INTO FIMS IS REQUIRED BY DOE ORDER 433.1A. THESE FIELDS WERE PREVIOUSLY IN FIMS BUT WERE REMOVED SEVERAL YEARS AGO UNDER THE MISTAKEN UNDERSTANDING THAT THE DATA WAS NO LONGER REQUIRED.

PLEASE DO NOT TYPE BELOW THIS LINE

REMARKS (REVIEWERS, PLEASE ADD YOUR SIGNATURE AND DATE):

FAC APPROVED, SEPTEMBER 19, 2007.

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